

## NOTES & NEWS

### Dr. Leo George Hertlein

On January 15, 1972, Dr. Leo George Hertlein unexpectedly died after a very short illness. In him, the California Malacozoological Society loses a staunch friend and a valued member of the Executive Board, as well as a contributing member of the Editorial Board. His kindly and friendly counsel will be missed. We extend our sympathy to his family.

## Soviet Contributions to Malacology

BY

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WE HAVE PREVIOUSLY PROVIDED lists of the papers in malacology published in the Soviet Union and some of the Russian satellite countries (BOSS & JACOBSON, 1970, *The Veliger* 13 (2): 199 - 202). There have been some positive responses from workers who would otherwise have overlooked some of these papers. The translations are made from the original citations as they appeared in the section on Invertebrate Zoology of the *Referativnyy Zhurnal*, a monthly series of abstracts published by the Government Committee of the Soviet Ministry of the USSR for Sciences and Technology. During 1970, the editors of the abstracts have divided the section on mollusks into several subheadings, and we have followed the same policy.

It is of interest to note that there are comparatively few purely taxonomic papers and virtually no revisionary monographs. There appears to be considerable emphasis on applied subjects – witness the General and Biology-Ecology sections. Further, though we have made no quantitative study, the sum total of papers appears to be significantly smaller than that published in the West, or for that matter in America alone. One field of activity has considerable importance for North American workers and

should command the attention of malacologists: the study of the fresh-water mollusks of Siberia and adjacent regions. The nomenclatorial introductions of Starobogatov alone are substantial and most have yet to be recognized in the West.

As we noted previously, we have given the best possible versions of titles of Russian journals. Several are comparatively well known or well distributed periodicals but many, if not most, are rarely seen in American libraries so we have had to rely on the abbreviations as they appear in the *Referativnyy Zhurnal*.

Additional abbreviations and symbols we have used are:

ZZ Zoologicheskii Zhurnal (Zoological Journal)  
BWHO Byul. Vsemiri. Organiz. Zdrayookhr (Bulletin of the World Health Organization)  
ES English Summary

## GENERAL

ALYAKRINSKAYA, I. O.

1969. Morpho-physiological adaptations in the live-bearing snail *Viviparus viviparus*. *ZZ*, 48 (11): 1608-1613 (ES)

BEER, S. A.

1969. The search for suitable molluscicides to combat *Bithynia leachi* – the intermediate host of *Opisthorchis felineus*. Second report on Phenasal as a molluscicide. *Med. Parazitol. i Parazitarn. Bolezni*, 38 (5): 578-582 (ES)

BEER, S. A., V. M. KOROLEVA & A. V. LIFSCHITZ

1969. Age determination in *Bithynia leachi*. *ZZ*, 48 (9): 1401-1404 (ES)

BERRIOS-DURAN, L. A. & L. C. RITCHIE

1968. The molluscicidal action of india-rubber, saturated with bis(tri-n-butyl)oxide. *BWHO* 39 (2): 305-307

BERRIOS-DURAN, L. A., L. S. RITCHIE & H. B. WESSEL

1968. Field elimination tests of molluscicides effective against *Biomphalaria glabrata* in flowing water. *BWHO* 39 (2): 311-316

CHU, K. Y., J. MASSOUD & F. ARFAA

1968. Comparative study of the molluscicidal action of copper chlorides and sulphates in Iran. *BWHO* 39 (2): 316-322

1968. The territorial range and ecology of the mollusk *Bulinus truncatus* in Khuzestan, Iran. *BWHO* 39 (4): 604-634

FILIPPOVA, YU. A.

1969. The quantity of species of squid of the Atlantic Ocean and perspectives for their commercial exploitation. *Trudi Atlantich. nauch.-issled. institut rybn. Khoziaistva i okeanogr.*, Vyp. 22: 235-270

GRIGOR'EV, V. A., V. M. IVCHENKO & A. P. KULAK

1969. Hydroreactive motion of aquatic organisms. *Bionika. Resp. Mezhved. Sb.*, Vyp. 3: 66-71

LOGANZEN, B. G.

1969. Conference on the study of freshwater mollusks of Siberia, Tomsk, 26-28 June, 1969. *Izv. Sib. Otd. Akad. Nauk SSSR*, No. 15, ser. Biol., Vyp. 3: 151-152

- MINICHEV, YU. S.  
1969. The organization of *Bathydoris vitjazi* n. sp. and the problem of the origin of the opisthobranch mollusks (Opisthobranchia, Nudibranchia). Vestnik Leningrad. Universitet 21: 51-58 (ES)
- NOVIKOV, E. A.  
1969. The inter-institutional science-method conference on the study of fresh-water mollusks of Siberia. Tomsk, 26-29 June 1969. Gidrobiol. Zhur. 6 (1): 130-131
- POTAFEEV, N. E.  
1969. A modified method for the cultivation of the mollusk *Galba truncatula*. Uchenye Zapiski Kurskii Gosudarstvennogo Pedagogicheskogo Instituta 59: 166-169
- RITCHIE, L. C. & I. FOX  
1968. Laboratory investigations on the molluscicide 2,5 dichloro-4 nitro-3-phenisaltizilanilid-(FCA): determination of the concentration and estimate of the sensitivity of mollusks of varying ages and dimensions. BWHO 39 (2): 307-311
- RITCHIE, L. S. & L. A. BERRIOS-DURAN  
1969. Chemical stability of the quality of molluscicides used in water. BWHO 40 (3): 471-474
- RITCHIE, L. S., L. A. BERRIOS-DURAN & R. SIERRA  
1969. Field elimination tests of a preparation of sodium pentachlorophenolate - a model in quality of molluscicide with delayed release of toxicants. BWHO 40 (3): 474-476
- ROGINSKAYA, I. S.  
1969. On the taxonomy and ecology of the nudibranch mollusk *Coryphella fusca*. ZZ 48 (11): 1614-1617 (ES)
- ROMANOVA, N. N.  
1969. On the commercial mollusks of the Barents Sea. Trudi Vseso. nauch.-issled. institut morsk. rybn Khoziaistva i okeanogr. 65: 436-448
- SADYKHOVA, I. A.  
1969. The utilization of submarine stations established on the bottom for aqualung divers for the investigation of the growth rate of mussels in the Bay of Peter the Great. Morsk. Pod. Vodn. Issled. Moscva Nauka 88-94
- SAMONOV, A. M.  
1970. On the problem of the transportation of the monodak *Monodacna colorata* (Eichwald) from the Caspian storage lake into Balkash Lake. Rybn. Resursy. Vodoemov. Kazakhstana i ikh ispol'z., Vyp. 6, Alma-Ata Nauka, 160-162
- SAMONOV, A. M. & K. V. SMIRNOVA  
1970. The colored monodack - *Monodacna colorata* (Eichwald) as an object of acclimatization in western Balkash. Rybn. Resursy. Vodoemov Kazakhstana i ikh ispol'z. Alma-Ata Nauka 150-159
- VOVK, A. N.  
1969. Perspectives for the development of trade in the long-penned squid. Rybn. Khoziaistvo, no. 10: 7-9
- ZHALTSANOVA, D. D.  
1969. On the investigation of the fauna and biotopes of the fresh-water mollusks of Buriat. Materialy Nauchn. Konferentsii Vses. O.-va Hel'mintologov Moscva 85-87
- MINICHEV, YU. S.  
1969. The structure of the stomach of the opisthobranchiate mollusks (Gastropoda, Opisthobranchia). ZZ 48 (12): 1780-1787 (ES)
- POPOV, I. F.  
1969. Submicroscopic organization of connective fibers. Tsitologiya 11 (11): 1379-1386 (ES)
- SADYKHOVA, I. A.  
1969. Growth and forms of the shell of the far-eastern mussel (*Mytilus grayanus* Dunker) in varying conditions of habitat. Trudi Vseso. nauch.-issled. institut morsk. rybn. Khoziaistva i okeanogr. 65: 429-435
- SKIRKYAVICHENE, Z. YU.  
1970. Regularity of the increase of the weight of *Dreissena*. 1. The dependence of weight on length. Trudi Lietuvos TSR Mokslu Akad., Vilna. Biol. Inst. DARBAI, (B), No. 1 (51): 71-80 (Lithuanian and English summaries)
- ZUEV, G. V.  
1969. Features of the structure of the mantle of mollusks, the mantle of *Symplectoteuthis oualaniensis* (Lesson). Biol. Morya., Vyp. 16, Kiev, Nauk. Dumka 102-110

## SYSTEMATICS AND FAUNISTICS

- ANONYMOUS  
1970. A new mollusk in the Black Sea. Rybn. Khoziaistvo No. 1: 12
- GAL'PERINA, G. E.  
1969. On the identification of the larvae of bivalve mollusks of the northern Caspian Sea. Trudi Molodykh Uchenykh. Vses. nauch.-issled. institut. Morsk rybn. Khoziaistva i okeanogr., Vyp. 1: 27-41
- GUDETZ, V.  
1969. On some little known species of mollusks (Pulmonata, Helicidae). Nauch. doklady vysshei shkoly Biolog. nauki No. 9: 26-34
- IOGANZEN, B. G. & E. A. NOVIKOV  
1969. The fresh-water mollusks of the Basyugan River basin. Uchenye Zapiski Tomskii gosudarstvennogo pedagogich. instituta No. 27: 78-79
- IZZATULLAEV, Z.  
1970. New species of land mollusks of the genus *Pupilla* Turton 1831 in Tadzhikistan (Gastropoda, Pulmonata, Pupillidae). Doklady Akad. Fankhon RSS Tochikiston. Dokl. Akad. Nauk. Tadzh SSR 13 (3): 53-55
- KARASEV, N. F.  
1970. On problems of the study of the aquatic molluscan fauna of Berezin governmental preserve. Vestsi Akad. Nauk BSSR, Ser. Biol. Nauk 2: 122-123
- MAKOGON, K. H. G.  
1970. Peculiarities of the distribution of the bivalve mollusks of the family Sphaeriidae in the rivers of the southern regions of the Ukraine. Vopr. Rybokhoz. Osvoeniya i San.-biol. rezhima vodosmov Ukrainy. Kiev, Nauk Dumka: 84-86
- MILOSLAVSKAYA, N. M.  
1970. On the absence of *Thyasira flexuosa* (Montagu) (Unioninidae, Bivalvia, Mollusca) in the fauna of the seas of the extreme north. ZZ 49 (5): 785-786 (ES)

## MORPHOLOGY

- ANTOMONOV, YU. G. & V. P. MATVEEVA  
1969. Investigations on the structure of the organization of the nervous system of the mollusk *Planorbis corneus*. Bionika i Matem. Modelir. i Biol. Tr. Seminara, Vyp. 1, Kiev, 3-18

## ROGINSKAYA, I. S.

1969. On the taxonomic position and the distribution of *Dermatobranchius walteri* (Krause, 1892) (Nudibranchia, Arminidae). *ZZ* 48 (9): 1320-1324 (ES)

## SALMANOV, E. A.

1969. On the investigation of the terrestrial molluscan fauna of the Talysh and their parasitic helminths. *Izv. Akad. Nauk Dumka Azerb SSR, Ser. Biol. Nauk* 3: 53-56

## SHEVTSAV, G. A.

1969. Preliminary data on the compositional form of the cephalopod larvae, their distribution and biology: *Onychoteuthis banksi* Leach. *Izv. Tikhookeansk. nauch.-issled. instituta rybn. khoziaistva i okeanogr.* 68: 186-192

## SHIKOV, E. V.

1970. Land mollusks of the region of Kalinin. *Vestnik Mosk. Univ. Biol., Pochvoved.* No. 2: 114-115

## STADNICHENKO, A. P.

1969. On the independent identity of *Lymnaea corvus* Gmelin 1778 and *Lymnaea turricula* Held 1836. *Nauchnye doklady vysshei shkoly Biolog. nauki.* No. 11: 7-13

## STAROBOGATOV, YA. I.

1970. On the relationship of the fresh-water molluscan fauna of Eastern Asia and North America. *Sev. Ledovityi Oksan i ego pobsrezh's v Kainozoe, Leningrad. Gidrometeorizdat,* 524-544

## STJEPČEVIČ, JOVAN

1969. Cephalopods of Kotorsky Bay. *Poljopriv. i Sumarstvo* 15 (2): 29-71 (Serbian; ES)

## BIOLOGY AND ECOLOGY

## AKIMUSHKIN, I. I.

1970. Cephalopod mollusks, their distribution and the food web in the nekton. *Programma i metoka izuch. biogeotsenozov vodn. sredy, Moskva. Nauka:* 137-149

## ANDREIKEVICH, E. V.

1969. On certain ecological features of the vineyard snail in Latvia. *Trudi Lietuvos TSR Mokslu Akad., Vilna. Biol. Inst. DARBAI, (B) No. 3 (50):* 63-68

## GILYAROV, M. S.

1970. Modes of dispersal and types of development in fresh-water bivalve mollusks (Bivalvia). *ZZ* 49 (4): 621-634 (ES)

## GOROKHOV, V. V.

1969. The ecology of *Galba truncatula* - the small pond snail and its epizootic role in varying biotopes. *Byul. Vses. Inst. Gel'mintol., Vyp. 3:* 21-23 (ES)

## IVANOV, A. I.

1969. The distribution of mussels, forming the slaked lime formation "Kemchug," in the principal commercial regions of the north-western parts of the Black Sea. *Trudy Azovo-Chernomorsk. nauch.-issled. instituta morsk. rybn. Khoziaistva i okeanogr., Vyp. 26:* 182-187

## IVANOV, A. I. &amp; V. I. PUDENKO

1969. Intensity of feeding in *Rapana thomasiana* Crosse in relation to body size and seasons of the year. *Trudy Azovo-Chernomorsk. nauch.-issled. instituta morsk. rybn. Khoziaistva i okeanogr., Vyp. 26:* 167-172

## KHOKUTKIN, I. M.

1969. Materials on the ecology of the live-bearing marsh snail *Viviparus contectus* (Mill.). *Trud. Inst. Ekol. Rast. i Zhivotnykh Ural'skii Fil. Akad. Nauk SSSR, Vyp. 71:* 125-132 (ES)

1970. Quantity and biomass of a population of four species of terrestrial mollusks of the genus *Bradybaena*. *Ekologiya, No. 3:* 92-94

## KONEV, A. D.

1970. The thermal stability of the molluscan gastropod genus *Littorina* in relation to the conditions in the aquatic habitat. *Zhur. Obsh. Biol.* 31 (3): 337-341 (ES)

## MITROPOL'SKII, V. I.

1970. New data on the feeding of Sphaeriid [clams]. *Biol. Vnutr. Vod. Inform. Byul. No. 5:* 30-34

## MOROZOV, D. A.

1969. On the biotic considerations for *Rapana* in saline waters in the Black Sea. *Rybn. Khoziaistvo No. 9:* 13

## NESIS, K. N.

1970. The biology of the Peru-Chilean gigantic squid *Dosidicus gigas*. *Okeanolog.* 10 (1): 140-152 (ES)

## REZNIK, Z. V.

1970. Some problems on the ecology of land mollusks of the steppe forests of the Stavropol Heights Fauna Stavropol'ya. *Stavropol' 195-198*

## SEMENOVA, N. L.

1970. Linear growth of *Macoma baltica* (L.) in Kandalakshsky Bay of the White Sea. *Trudi Belomorsk. Biol. St. MGU* 3: 69-80

## SHAPKAREV, I. A.

1969. The distribution and the population density of *Dreissena polymorpha* Pall. (Lamellibranchia) in Macedonian lakes. *Godishen. Zbornik, Prirodno-matem. Fak. Univ. Skopje* 21: 31-52 (in Macedonian; ES)

## SKALKIN, V. A.

1970. Distribution of the gastropod mollusk *Sulcus discus* off the Monneron Islands. *ZZ* 49 (7): 1084-1085 (ES)

## TERENT'EV, P. V.

1970. The influence of climatic temperature on the size of the shell in terrestrial mollusks. *ZZ* 49: (1): 5-10 (ES)

## UVALIEVA, K. K.

1970. Biological features of the slug pests of cultivated vegetation in southeastern Kazakhstan. *Materialy 2-i Nauchn. Konferentsii Molodykh Uchenykh Akad. Nauk Kaz SSR. Alma-Ata:* 395-396

## WILLIAMS, S. N. &amp; P. J. HUNTER

1968. Distribution of *Bulinus* and *Biomphalaria* in the provinces of Khartoum and Blue Nile, Sudan. *BWHO* 39 (6): 963-969

## ZURAVEL', P. A.

1970. On the ecology of the mollusks *Fagotia* - from the thermal reservoir GRES in the zone of the Dnieprovsky storage lake (Lenin Lake). *Vopr. rybkhoz. osvoeniya i san.-biol. rezhima vodosmov Ukrainy, Kiev, Nauk Dumka* 74-75

## ZHYUBIKAS, I. I.

1969. Some data on the biology of *Pecten yessoensis* Jay in the Kurile-Sakhalin region. *Vestnik Leningrad. Universitet., No. 21:* 21-32 (ES)

## PHYSIOLOGY

- ARAPETYAN, S. N., L. F. OSIPOV & Z. A. SOROKINA  
1969. The role of calcium ions in the maintenance of potential chambers and ionic gradients of molluscan neurons. *Neirofiziologiya* 1 (3): 323-330 (ES)
- ALIMOV, A. F.  
1969. Some general properties of the process of filtration in bivalve mollusks. *Zhurnal Obshchaia Biol.* 30 (5): 621-631 (ES)
- ALYAKRINSKAYA, I. O.  
1970. Quantitative characteristics of the hemolymph and hemoglobin of the corneus snail *Planorbis corneus* (Gastropoda, Pulmonata). *ZZ* 49 (3): 349-353 (ES)
- GERASIMOV, V. D.  
1969. The role of small concentrations of sodium ions in the generation of action potentials in the neurons of the vineyard snail (*Helix pomatia*). *Neirofiziologiya* 1 (3): 315-322 (ES)
- GOROMOSOVA, S. A.  
1969. Seasonal dynamics in the chemical composition of Black Sea mussels. *Trudy Azovo-Chernomorsk. nauch.-issled. instituta morsk. rybn. Khoziaistva i okeanogr.*, Vyp. 26: 173-181
1970. Dynamics of the maintenance of poly- and oligo-saccharides in the fibres of sea mussels. *Biol. Morya*, Vyp. 18, Kiev, Nauk Dumka: 80-89
- GOROMOSOVA, S. A. & A. Z. SHAPIRO  
1970. On the amylase activity in the hepato-pancreas and muscles of sea mussels [*Mytilus*]. *Biol. Morya*, Vyp. 18, Kiev, Nauk Dumka: 89-98
- GRIGOR'EV, B. F.  
1970. Saline stability of the freshwater mollusks of the Dniepr Delta. *Vopr. Rybokhoz. osvoeniya i san.-biol. rezhina vodoemov. Ukrainy.* Kiev, Nauk Dumka: 110-112
- GRIGOR'EVA, G. M.  
1969. Cholin-esterase in the optical ganglion of the octopus *Ommatostrephes sloanei pacificus*. *Fermenty i Evolyutsii Zhivotnykh.* Leningrad Nauka: 177-183 (ES)
- KARPEVICH, A. F. & A. T. SHURIN  
1970. The influence of water of various salinities and of manganese ions on *Macoma baltica* L. An elucidation of the formation of manganese concretions. *Rybkhoz. Issled. v Basseine Baltiisk. Morya.* No. 5, Riga, Zvaigzne 43-59
1970. The influence of physico-chemical conditions on the food of invertebrates and fish of the Baltic Sea and Rizhkiy Bay. *Rybkhoz. Issled. v Basseine Baltiisk. Morya* No. 6, Riga, Zvaigzne 157-195
- KONEV, A. D.  
1970. The utilization of a new parameter for exposure to thermal influence prior to the examination of the thermal stability of three species of the genus *Littorina*. *Zhur. Obsh. Biol.* 31 (4): 464-468 (ES)
- MALYUK, V. I. & V. A. MAISKII  
1970. Peculiarities of the inclusion of radioactive metionin in the gigantic nerve cells of the mollusk *Planorbis corneus*. *Zhur. Evolyuts. Biokhemii i Fiziol.* 6 (1): 12-18 (ES)
- PATRUSHEVA, O. I.  
1970. Thermal activity of pond life under changing osmotic conditions. *Vopr. Evolyutsion. Morfol. i Biogeogr. Kazan'*: 67-76
- REKHINA, N. I.  
1969. Chemical composition of some species of mollusks in the Barents Sea. *Trudi Vseso. nauch.-issled. institut morsk. rybn. Khoziaistva i okeanogr.* 65: 449-452
- SHAPIRO, A. Z.  
1969. Glycolysis in the muscle of the *Mytilus galloprovincialis*. *Fermenti i Evolyutsii Zhivotnykh.* Leningrad Nauka: 157-164 (ES)
1970. Features of the process of glycolysis in the muscles of sea mussels. *Biol. Morya.* Vyp. 18, Kiev, Nauk Dumka 98-113
- SHAPIRO, A. Z. & A. N. BOBKOVA  
1970. The influence of copper on several biochemical indices of oxidative exchange within mussels. *Vopr. Rybokhoz. osvoeniya i san.-biol. rezhina vodoemov Ukrainy.* 1. Kiev, Nauk Dumka 125-126
- SOLDATOVA, I. N.  
1970. The reaction of the ciliary epithelium of the bivalve genus *Teredo* to variations of the salinity of sea water. *Tsitologiya* 12 (3): 330-337 (ES)
- STADNICHENKO, A. P.  
1970. On the sexual variability of albuminous composition of the blood in *Viviparus contectus* (Gastropoda, Prosobranchia). *ZZ* 49 (5): 680-684 (ES)
1970. Ontogenetic changes in the albuminous composition of the blood of *Lymnaea stagnalis* (L.) *Gidrobiol. Zhur.* 6 (2): 124-127
- SULTANOV, K. M. & KH. M. EFENDIEV  
1969. The distribution of lead in the shells of Recent and fossil pelecypods of the Apsheronky layer and Recent Caspia. *Uchenye Zapiski Azerb. Universitet Ser. Geol.-Geogr. Nauk* 3: 29-37

## A Taxonomic Note

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ARTICLE 23-b OF THE International Code of Zoological Nomenclature, the so-called "Statute of Limitations," has led to much debate and misunderstanding. MAYR, SIMPSON & EISENMANN (1971) cite a new and clarified version of it that is to be published as a new Declaration 2, superseding the "Declaration 43" published in 1970 in the Bulletin of Zoological Nomenclature. They dismiss the latter, in a footnote, as illegal, and they imply that it will be withdrawn. They quote the full text of the clarified version, which was accepted in 1969 by more than two-thirds of the International Commission. It is too long to be re-